

Fig.1

1 GAATTCATGG TGTTTGATC ATTTTAAATT TTTATATGGC GGGTGGTGGG CAACTCGCTT 60  
60 CCGGGCAACT CGCTTACCGA TTACGTTAGG GCTGATATTT ACGTAAAAT CGTCAAGGGA 120  
121 TGCAAGACCA AAGTAGTAAA ACCCCGGAGT CAACAGCATC CAAGCCCAAG TCCTTCACGG 180  
181 AGAAAACCCA GCGTCCACAT CACGAGCGAA GGACCACCTC TAGGCATCGG ACGCACCATC 240  
241 CAATTAGAAG CAGCAAAGCG AAACAGCCA AGAAAAAGGT CGGCCCGTCG GCCTTTCTG 300  
301 CAACGCTGAT CACGGGCAGC GATCCAACCA ACACCCCTCCA GAGTGACTAG GGGCGGAAAT 360  
361 TTAAAGGGAT TAATTTCCAC TCAACCACAA ATCACAGTCG TCCCCGGTAT TGTCTGCAG 420  
421 AATGCAATTT AAACTCTTCT GCGAATCGCT TGGATTCCCC GCCCCTGGCC GTAGAGCTTA 480  
481 AAGTATGTCC CTTGTGATG CGATGTATCA CAACATATAA ATACTAGCAA GGGATGCCAT 540  
541 GCTTGGAGGA TAGCAACCGA CAACATCACA TCAAGCTCTC CCTTCTCTGA ACAATAAAC 600  
601 CCACAGAAGG CATTT 615

Fig.2

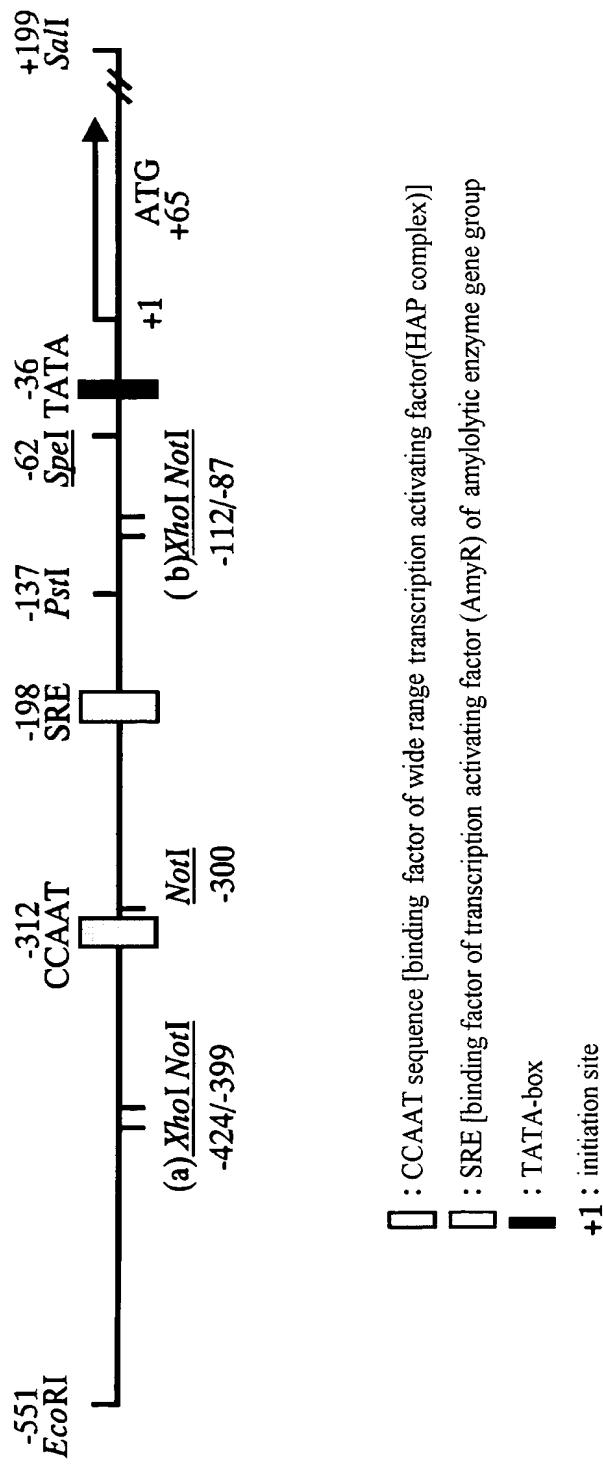
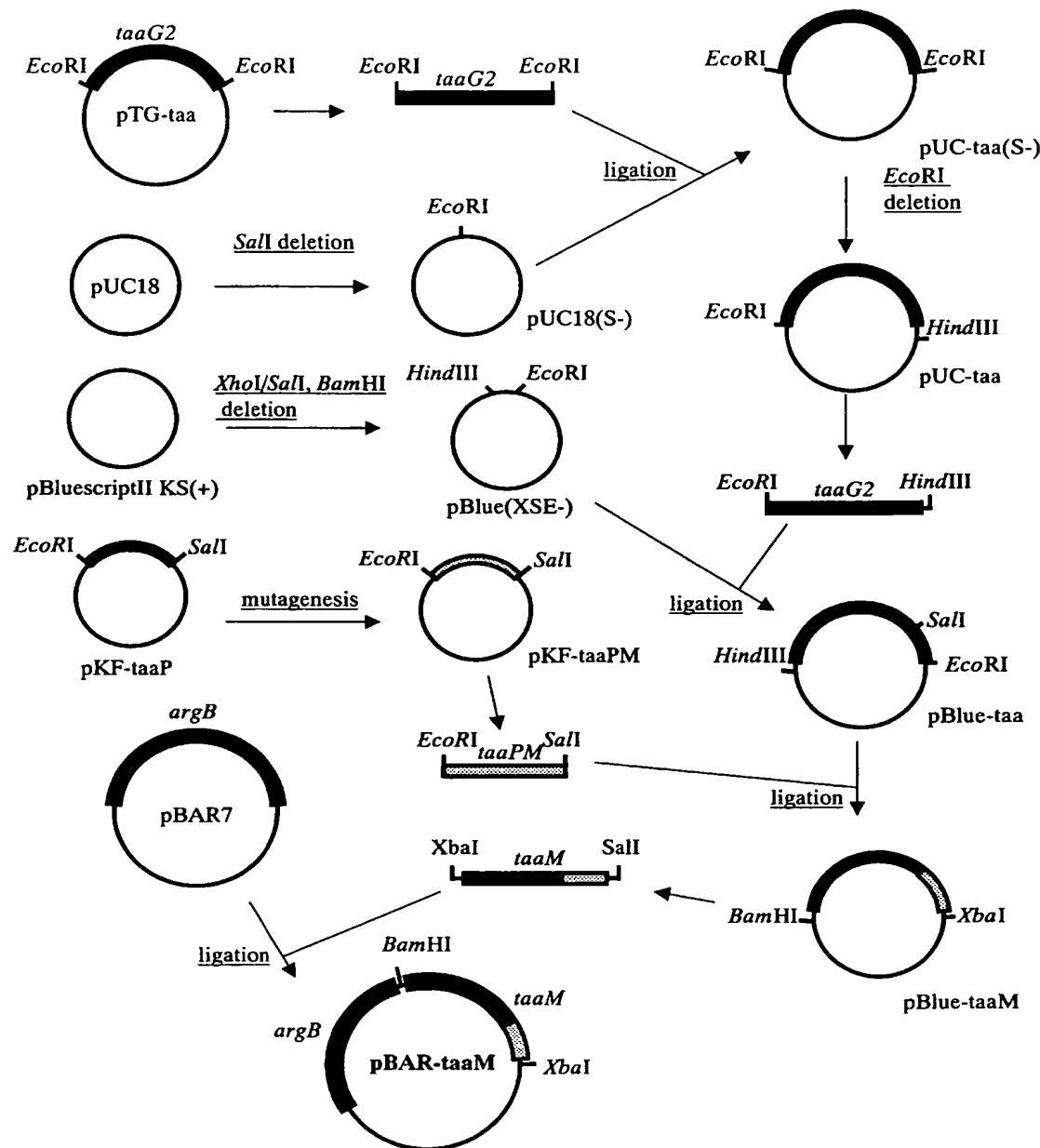


Fig.3



*taaG2* : Taka-amylase A gene  
*argB* : ornithine carbamoyltransferase gene (selection marker)  
*taaM* : Taka-amylase gene including modified promoter

Fig.4

promoter	production amount of amylase (mg/L)					
	starch			maltose		
	ABPU1	$\Delta agdB$	ABPU1/ $\Delta agdB$	ABPU1	$\Delta agdB$	ABPU1/ $\Delta agdB$
Taa	68	397	5.8	81	572	7.1
PCSB	325	332	1.0	363	727	2.0
PCSPb	478	N.D.	—	462	1031	2.2